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(FILE 'HOME' ENTERED AT 11:02:02 ON 04 MAR 2008)  
FILE 'CA' ENTERED AT 11:02:14 ON 04 MAR 2008  
L1 3701 S (RADIOWAVE OR RADIO WAVE OR RADIO(8A)(MHZ OR MEGAHERTZ OR MEGAHZ  
OR (MEGA OR M)(W)(HERTZ OR HZ) OR MHERTZ) OR RADIOFREQUENC? OR RF  
OR RADIO (2A)FREQUENCY)(4A)(SPECTRO? OR ANALY?)  
L2 2731 S L1 AND RADIO?  
L3 43 S L2 AND NETWORK?  
L4 10 S L2 AND BODY FLUID  
L5 2278 S L2 NOT (LASER OR SYNCHROT? OR SPUTTER OR VAPOR DEPOSIT? OR CVD OR  
ULTRASO?)  
L6 4 S L5 AND (WATER OR H2O)(1W) CONTENT  
L7 33 S L5 AND(850 OR 860 OR 870 OR 875 OR 880 OR 890 OR 900 OR 910 OR 920  
OR 925 OR 930 OR 940 OR 950)  
L8 8 S L5 AND (1200 OR 1.2 OR 1225 OR 1250 OR 1275 OR 1300 OR 1.3 OR1325  
OR 1350 OR 1375 OR 1400 OR 1.4)(2A)(MHZ OR GHZ OR MEGAHERTZ OR  
GIGAHERTZ OR MEGAHZ OR GIGAHZ OR (MEGA OR M OR GIGA OR G)(W)(HERTZ  
OR HZ) OR MHERTZ OR GHERTZ)  
L9 23 S L5 AND(425 OR 430 OR 435 OR 440 OR 445 OR 450 OR 455 OR 460 OR 465  
OR 470 OR 475)  
L10 115 S L3-4,L6-9  
L11 63 S L10 AND PY<2000  
L12 9 S L11 AND(220 OR BIOLIQID OR CONTACTLESS OR NEURAL OR DECONVOLUT?  
OR VITRO OR DNA OR SPECTRUM NETWORK OR BIOCHEM)  
FILE 'BIOSIS' ENTERED AT 11:51:58 ON 04 MAR 2008  
L13 2 S L12  
FILE 'MEDLINE' ENTERED AT 11:53:48 ON 04 MAR 2008  
L14 1 S L12  
FILE 'INSPHYS' ENTERED AT 11:54:52 ON 04 MAR 2008  
L15 0 S L12  
FILE 'INSPEC' ENTERED AT 11:55:27 ON 04 MAR 2008  
L16 8 S L12  
FILE 'CA, BIOSIS, MEDLINE, INSPEC' ENTERED AT 11:56:51 ON 04 MAR 2008  
L17 15 DUP REM L12 L13 L14 L16 (5 DUPLICATES REMOVED)

=> d bib,ab 117 1-15

L17 ANSWER 2 OF 15 CA COPYRIGHT 2008 ACS on STN  
AN 132:70483 CA  
TI Spectrum and network analyzers  
AU Byrd, J. M.; Caspers, F.  
CS Lawrence Berkeley National Laboratory, Berkeley, CA, 94720, USA  
SO Beam Measurement, Proceedings of the Joint US-CERN-Japan-Russia School  
on Particle Accelerators, Montreux, Switzerland, May 11-20, 1998 (1999),  
Meeting Date 1998, 703-722. Editor(s): Kurokawa, S-i. Publisher: World  
Scientific Publishing Co. Pte. Ltd., Singapore, Singapore.  
AB Spectrum and network analyzers (SPAs and NWAs) are found in every  
microwave lab. This report describes the basic principles of operation  
of a SPA and NWA and also describes several simple example measurements  
using each of these instruments.

L17 ANSWER 6 OF 15 CA COPYRIGHT 2008 ACS on STN

AN 125:189433 CA  
TI Method of investigation of bioliquids resonance structure alteration induced by low-power laser radiation  
AU Brill, G. E.; Petrosyan, V. I.; Zhytenyova, E. A.; Martinov, L. A.; Sinitsyn, N. I.  
CS Medical University, Saratov, 410710, Russia  
SO Proceedings of SPIE-The International Society for Optical Engineering (1996), 2678(Optical Diagnostics of Living Cells and Biofluids), 519-529  
AB By means of the new method of transmission-resonance EHF/SHF radiowave spectroscopy alteration of the resonance structure of water, whole blood, blood plasma, serum and erythrocyte hemolyzate under the influence of He-Ne laser radiation was established. Fine mol. alterations were obsd. after interaction of bioliquids with laser light.

L17 ANSWER 15 OF 15 CA COPYRIGHT 2008 ACS on STN

AN 100:117231 CA

OREF 100:17769a,17772a

TI Effect of radiofrequency radiation on DNA duplex stability and replication

AU Brown, Roger F.; Marshall, Stanley V.

CS Univ. Missouri, Rolla, MO, USA

SO Report (1983), SAM-TR-83-20; Order No. AD-A133526, 45 pp. Avail.: NTIS From: Gov. Rep. Announce. Index (U. S.) 1984, 84(2), 87

AB Three exptl. approaches were used to det. if absorption of continuous-wave radiofrequency (RF) photons affect the stability and(or) replication of mammalian DNA. Two of the approaches involved expts. with female CD-1 mice, including analyses of RF effects on sister chromatid exchanges (SCE) in bone marrow as one index of DNA stability and RF effects on replication of the animals' marrow and spleen DNA. The 3rd exptl. approach consisted of tests to det. if RF exposure causes partial denaturation of double-stranded DNA, monitored in this study by susceptibility of the polymer to hydrolysis by single-strand-specific S1 nuclease. The substrate DNA used for this cell-free assay was isolated from Chinese hamster ovary cell cultures with radioactive deoxynucleosides. Irradiated subjects were exposed to incident RF field densities adjusted to be equiv. to absorbed doses in mice of 4 W/kg at each of 3 test frequencies (400, 800, and 1200 MHz). The results revealed no redn. in the level of DNA synthesis in either the spleen or the bone marrow of animals exposed to any of the 3 test frequencies, as well as no increase in the no. of SCE. However, a slight, but consistent, increase in the nuclease susceptibility of isolated DNA appeared to be a result of RF radiation exposure.

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STN INTERNATIONAL LOGOFF AT 11:57:24 ON 04 MAR 2008